

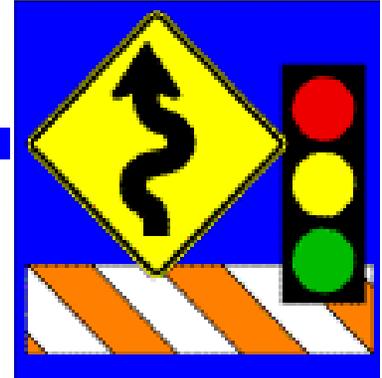


An aerial, high-angle photograph of a two-lane asphalt road winding through a green, grassy field. A red truck is driving away from the viewer in the upper lane, and a white car is driving towards the viewer in the lower lane. The image has a motion blur effect, suggesting speed. The text 'vidman.ca' is overlaid in the bottom left corner.

[vidman.ca](http://vidman.ca)

# INTRODUCING

## The Montana Driver Education and Training Curriculum Guide



### Content

- 45 Essential Knowledge and Skills
- 23 Lesson Plans
- 76 Fact Sheets
- 89+ PEPs
- 45 PowerPoints
- 51 Worksheets
- 29 Tests
- 3 Test Banks

## TRAFFIC SAFETY EDUCATION

### Montana Standards for Teen Driver Education and Training

**Content Standard 1** – Students demonstrate knowledge and understanding of the highway transportation system and the laws governing the operation of a motor vehicle.

**Content Standard 2** - Students act responsibly by consistently demonstrating a positive attitude and respect for other motorists, by obeying laws, and through an observable commitment to safe behaviors and good decision making.

**Content Standard 3** - Students demonstrate skill in maneuvering and controlling motor vehicles smoothly, efficiently, and safely.

**Content Standard 4** - Students demonstrate and analyze the importance of proper visual skills for the safe operation of a motor vehicle.

**Content Standard 5** - Students communicate and interact with the highway transportation system and other users utilizing prescribed, effective, and safe practices.

**Content Standard 6** – Students demonstrate and safely apply driver risk-managing (defensive driving) strategies, behaviors, and habits.

**Content Standard 7** - Students advocate for personal and public approaches to lifelong learning of the driving task.

**Content Standard 8** - Students acquire behind-the-wheel driving experience under the direction of a Montana approved driver education instructor and are encouraged to obtain additional experience under the direction of a parent or guardian with a valid driver license.

Montana



# Scope and Sequence

Montana



Linda McCulloch, Superintendent  
Montana Office of Public Instruction  
www.opi.mt.gov

## MONTANA DRIVER EDUCATION AND TRAINING CURRICULUM GUIDE CLASSROOM AND IN-CAR SCOPE AND SEQUENCE

Classroom Module Lessons	Behind the Wheel Lessons
<b>Module 1: Course Overview/Parent Orientation</b> <ul style="list-style-type: none"> <li>• program registration process</li> <li>• teen driver education and training program goals</li> <li>• course structure, policies and rules</li> <li>• Graduated Driver Licensing Law</li> <li>• responsibilities of the instructor, parent and student</li> <li>• behaviors resulting in driver errors</li> <li>• crash statistics in Montana and nationally</li> <li>• risks associated with poor driving habits</li> </ul>	
<b>Module 2: Preparing to Operate a Vehicle</b> <ul style="list-style-type: none"> <li>• function of alert and warning symbols, and gauges</li> <li>• location, function, and operation of vehicle control devices and safety, communication, and convenience devices</li> <li>• pre-entry tasks made around the vehicle entry into the vehicle tasks</li> <li>• seating, steering wheel (if adjustable), and restraint adjustments</li> <li>• traditional mirror adjustments</li> <li>• enhanced side view mirror (GBE) settings</li> <li>• securing and exiting tasks after stopping a motor vehicle.</li> </ul>	
<b>Module 3: Traffic Control Devices and Laws</b> <ul style="list-style-type: none"> <li>• needs and purpose for traffic control devices for signs, signals, and markings</li> <li>• color and function of traffic signal lights, and signal/sign combinations</li> <li>• meanings of colors and shapes of roadway signs, signals, and markings</li> <li>• categorize roadway signs, signals, and markings into meaningful applications</li> <li>• driver responses to roadway signs, signals, and markings</li> <li>• apply the traffic laws</li> </ul>	
<b>Module 4: Basic Control Tasks</b> <ul style="list-style-type: none"> <li>• blind areas to the front, sides, and rear of a vehicle</li> <li>• targeting establishes steering accuracy</li> <li>• visual reference points</li> <li>• pre-drive and starting tasks</li> <li>• four (4) steering wheel control techniques</li> <li>• procedures for entering and leaving the roadway</li> <li>• acceleration control</li> <li>• controlled, threshold, and trail braking control</li> <li>• left and right precision turns, stopped and moving</li> <li>• backing straight and while turning</li> </ul>	<p style="text-align: center;"><u>In-Car Lesson 1</u> <u>Environment: Parking Lot</u></p> <ul style="list-style-type: none"> <li>• Preparation to Drive</li> <li>• Orientation to Controls/Adjustments</li> <li>• All Occupants Buckled Up</li> <li>• Starting the Vehicle</li> <li>• Steering Wheel Control</li> <li>• Putting the Vehicle into Motion</li> <li>• Managing Speed Control</li> <li>• On/Off Targeting (Vision Control) <ul style="list-style-type: none"> <li>— Turn Head before Turning Wheel</li> </ul> </li> <li>• Tracking on a Straight Path</li> <li>• Stopping Smoothly with Controlled Braking</li> <li>• Stopping Quickly with Threshold Braking</li> <li>• Securing and Exiting the Vehicle</li> </ul>

# The Table of Content

## DRIVER EDUCATION AND TRAINING CURRICULUM GUIDE TABLE OF CONTENT

INTRODUCTION

HOW TO USE THE GUIDE

CONTENT STANDARDS

CLASSROOM INSTRUCTIONAL MODULES

<b>Foundation</b>	Module 1	Course Overview/Parent Orientation
	Module 2	Preparing to Operate a Vehicle
	Module 3	Traffic Control Devices and Laws
	Module 4	Basic Control Tasks
	Module 5	Strategies for Effective Vision Control
	Module 6	Strategies for Managing Time and Space
	Module 7	Strategies for Mixing with Traffic
	Module 8	Vehicle Control in Limited Spaces
	Module 9	Natural Laws Affecting Vehicle Control
	Module 10	Strategies for Negotiating Curves
<b>Application</b>	Module 11	Strategies for Rural Driving
	Module 12	Strategies for Urban Driving
	Module 13	Strategies for Controlled Access Highways
	Module 14	Strategies for Adverse Driving Conditions
	Module 15	Strategies for Sharing the Road with Other Users
	Module 16	Strategies for Emergencies
<b>Responsibility</b>	Module 17	Driver Fitness and Responsibilities
	Module 18	Owning a Vehicle and Trip Planning
	Module 19	Managing Risk
<b>Assessment</b>	Module 20	Final Exam and Driver Licensing

Included with each module:

- Transparencies/PowerPoint
- Worksheets
- Fact Sheets
- Physical Equivalent Practice (PEP)
- Quizzes/Test

IN-CAR INSTRUCTIONAL MODULES

In-car Guide #1	In-car Guide #5	In-car Guide #9
In-car Guide #2	In-car Guide #6	In-car Guide #10
In-car Guide #3	In-car Guide #7	In-car Guide #11
In-car Guide #4	In-car Guide #8	In-car Guide #12

Final Skills Assessment  
Observer Activities

# The Essential Knowledge and Skills

## Curriculum Map

### Montana Teen Driver Essential Knowledge and Skills Topics

- Topic 1. Course Overview/Parent Orientation
- Topic 2. Identify Vehicle Gauges, Alert & Warning Symbols
- Topic 3. Operate Vehicle Control Devices
- Topic 4. Preparing to Drive
- Topic 5. Protecting Occupants
- Topic 6. Traffic Control Devices and Traffic Laws
- Topic 7. Standard Vehicle Reference Points
- Topic 8. Performing Basic Maneuvers
- Topic 9. Using Vision for Vehicle Control
- Topic 10. Good Habits for Reduced Risk Driving
- Topic 11. Time and Space Management Systems
- Topic 12. Time and Space Management Strategies
- Topic 13. Right of Way Rules
- Topic 14. Negotiating Intersections
- Topic 15. Performing Lane Changes and Passing
- Topic 16. Performing Turnabouts
- Topic 17. Performing Parking Maneuvers
- Topic 18. Effect of Gravity and Energy of Motion
- Topic 19. Maintaining Vehicle Balance
- Topic 20. Maintaining Traction Control
- Topic 21. Negotiating Hills and Curves

**#1 - 21  
Foundation  
for  
Knowledge  
& Skills**

# The Essential Knowledge and Skills

## Foundation for Laws, Good Habits, and Time and Space Management #6, 7, 9, 10, 11, 12, 13

- Topic 6. Traffic Control Devices and Traffic Laws
- Topic 7. Standard Vehicle Reference Points
- Topic 9. Using Vision for Vehicle Control
- Topic 10. Good Habits for Reduced Risk Driving
- Topic 11. Time and Space Management Systems
- Topic 12. Time and Space Management Strategies
- Topic 13. Right of Way Rules

- Establishing Good Driving Habits
- Visual Functions
- Fields of Vision
- Overcoming Visual Problems
- Effect of Speed on Vision
- Techniques to Improve Vision
- Calculate Speed and Distance Traveled
- Vehicle Control Sequence
- Use Following Time to Manage Space

- Signs, Signals, Markings
- Rules of the Road and Traffic Laws
- Right of Way

- Space Management Strategies
- The Perceptual Process
- Components
  - LOS-POT
  - Orderly Visual Search Pattern
  - Lane Positions
  - Zone Locations
  - Controlling Space to Front
  - Judging Gaps
  - Rear Zone Control
  - Judging gaps
- Reduced Risk Decision-Making

# The Essential Knowledge and Skills

- Topic 22. Driving in Rural Environments
- Topic 23. Driving in Urban Driving Environments
- Topic 24. Driving on Controlled, Access Highways
- Topic 25. Driving During Reduced Visibility Driving Conditions
- Topic 26. Driving During Extreme Weather Conditions

**#22-26  
Application  
Of  
Knowledge  
&  
Skills**

- Topic 27. Cooperating with Other Roadway Users
- Topic 28. Responding to Emergencies
- Topic 29. Responsibilities After a Collision
- Topic 30. Effects of Emotions and Disabilities
- Topic 31. Alcohol and Drugs' Effect on the Body
- Topic 32. Alcohol and Drugs' Effect on the Driving Task
- Topic 33. Saying "No" to Alcohol and Other Drugs
- Topic 34. Alcohol Involved Crashes and Montana Laws
- Topic 35. Preventing Drowsy Driving
- Topic 36. Preventing Aggressive Driving
- Topic 37. Reducing Driver Distractions
- Topic 38. Driving Within the Highway Transportation System
- Topic 39. Driver Licensing

**#27-39  
Responsibility  
& Attitude**

- Topic 40. Insurance Requirements
- Topic 40. Purchasing a Vehicle
- Topic 41. Maintaining a Vehicle
- Topic 43. Planning a Trip
- Topic 44. Conserving Resources
- Topic 45. Managing Risk with Vehicle and Highway Designs

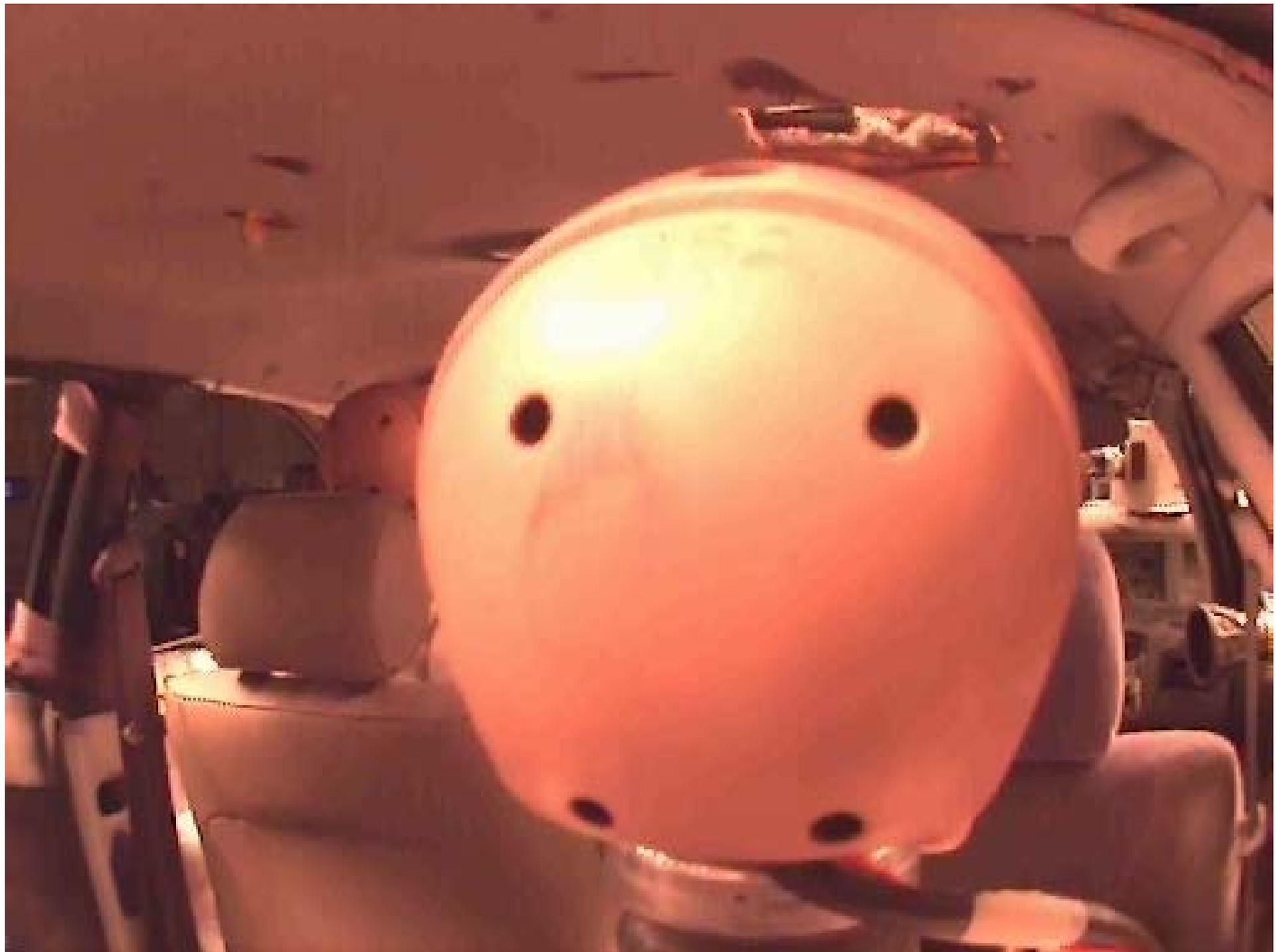
**#40-45  
Program  
Enhancements**

# The Essential Knowledge and Skills Lessons' Topics

Modules	Topics Included in Module	Reinforced Topics	Topic Content
			<p>positioning within a vehicle and how they provide crash survival protection; and</p> <p>(d) demonstrate proper steering wheel adjustments to accommodate for airbags.</p>
Module 10 Strategies for Negotiating Hills and Curves	21	3,5, 6, 7, 8, 9, 10, 11, 12	<p>21. The student is expected to:</p> <p>(a) describe and respond to line of sight and path of travel restrictions;</p> <p>(b) describe and demonstrate proper approach to hills or curves;</p> <p>(c) describe and demonstrate proper speed for ascending and descending hills;</p> <p>(d) describe and demonstrate proper entry speed and lane positions for a hill or curves;</p> <p>(e) describe and demonstrate proper speed and lane positions in a curves' apex;</p> <p>(f) demonstrate proper speed and lane positions for exiting curves; and</p> <p>(g) describes conditions that can affect traction and procedures to maintain traction in curves.</p>

# Extra Resources

Name	Size	Type ^
Photo Airbag Deployment		File Folder
Test Bank		File Folder
Driving Reminder Cards.pdf	87 KB	Adobe Acrobat Document
IIHS News Release_Rear Crash Protection .pdf	199 KB	Adobe Acrobat Document
M18 PP Vehicle Technology Optional.pdf	2,944 KB	Adobe Acrobat Document
MT Crash Release form.pdf	55 KB	Adobe Acrobat Document
MT GLD law.pdf	57 KB	Adobe Acrobat Document
Mt Highway Patrol AnnualReport 2004.pdf	2,288 KB	Adobe Acrobat Document
MT Highway Patrol brochure.pdf	427 KB	Adobe Acrobat Document
NHTSA alco facts.pdf	328 KB	Adobe Acrobat Document
NHTSA young driver stats.pdf	225 KB	Adobe Acrobat Document
Parent Night PP.pdf	1,111 KB	Adobe Acrobat Document
Reading Tire Information.pdf	53 KB	Adobe Acrobat Document
Understanding Car Crashes Teachers_Guide[1].pdf	807 KB	Adobe Acrobat Document
Young Drivers and Highway Design.pdf	32 KB	Adobe Acrobat Document
Driving Reminder Cards.pub	63 KB	Microsoft Office Publisher Document
Denise Wagoner's story.ppt	952 KB	Microsoft PowerPoint Presentation
M18 PP Vehicle Technology Optional.ppt	3,176 KB	Microsoft PowerPoint Presentation
Parent Night.ppt	2,571 KB	Microsoft PowerPoint Presentation
Photo Airbag Deployment.ppt	51 KB	Microsoft PowerPoint Presentation
PP Jacqueline_DUI.ppt	260 KB	Microsoft PowerPoint Presentation
DUI Laws by State.doc	99 KB	Microsoft Word Document
Web Resources.doc	45 KB	Microsoft Word Document
Websites for Mod 9.doc	24 KB	Microsoft Word Document
Wrksht Crash Log.doc	42 KB	Microsoft Word Document



# GIFs

 <p>Motorist Drive Education and Training Strategies for Rural Driving</p>	 <p>Crash Statistics</p>	 <p>Crash Statistics</p>	 <p>Crash Statistics</p>	 <p>Crash Statistics</p>	 <p>Rural Road Characteristics</p>	 <p>Rural Road Narrow Width</p>	 <p>Rural Road Narrow Width</p>
Slide1.GIF	Slide2.GIF	Slide3.GIF	Slide4.GIF	Slide5.GIF	Slide6.GIF	Slide7.GIF	Slide8.GIF
 <p>Maximum Speed Limits</p>	 <p>Maximum Speed Limits</p>	 <p>Shoulder Surface</p>	 <p>Signs and Markings on Rural Roads</p>	 <p>Rural Road Hazards</p>	 <p>Rural Road Characteristics</p>	 <p>Rural Road Characteristics</p>	 <p>Line of Sight (LOS) Peak-to-Peak</p>
Slide9.GIF	Slide10.GIF	Slide11.GIF	Slide12.GIF	Slide13.GIF	Slide14.GIF	Slide15.GIF	Slide16.GIF
 <p>Reduced Lighting on Rural Roads</p>	 <p>Street Layout to Manage Time and Space</p>	 <p>Two-Lane Rural Roads</p>	 <p>Two-Lane Rural Intersections</p>	 <p>Rural Two-Lane Intersections</p>	 <p>Rural Multi-Lane Roads</p>	 <p>Specific Driveways</p>	 <p>Three Types of Driveway</p>
Slide17.GIF	Slide18.GIF	Slide19.GIF	Slide20.GIF	Slide21.GIF	Slide22.GIF	Slide23.GIF	Slide24.GIF
 <p>Specific Driveways</p>	 <p>Passing on Two-Lane Rural Roads</p>	 <p>Passing on Two-Lane Rural Roads</p>	 <p>Passing on Two-Lane Rural Roads</p>	 <p>Deciding to Pass</p>	 <p>Passing on Two-Lane Rural Roads</p>	 <p>Preparing to Pass on Two-Lane Rural Roads</p>	 <p>What do these two road types in common?</p>
Slide25.GIF	Slide26.GIF	Slide27.GIF	Slide28.GIF	Slide29.GIF	Slide30.GIF	Slide31.GIF	Slide32.GIF
 <p>Passing on Multi-Lane Rural Roads</p>	 <p>Being Prepared on Rural Roads</p>	 <p>Highway Egress</p>	 <p>Highway Egress</p>	 <p>Rehabilitation</p>	 <p>Slow Moving Vehicles - Definition</p>	 <p>Slow Moving Vehicles on Rural Roads</p>	 <p>Slow Moving Vehicles on Rural Roads</p>
Slide33.GIF	Slide34.GIF	Slide35.GIF	Slide36.GIF	Slide37.GIF	Slide38.GIF	Slide39.GIF	Slide40.GIF

# THE ULTIMATE VEHICLE OVER LOAD

- Operating a vehicle above the Gross Vehicle Weight Rating (GVWR) is a potential safety hazard



**Frame, suspension, brakes and tires are not designed for weights above the rating the manufacturer has set**



# Videos

- Airbag deploy..mpg
- AMBUSH.WMV
- american julie.mpg
- backseat bullet.avi
- backseat unbelted.avi
- bikerbar.mpg
- Bird.mpeg
- Blondestar2004.mp3
- BungeeJumping\_1.mpg
- bus.mpeg
- Car hits Man.MPG.mpg
- car.crash.umc.mpeg
- cashCrash.mpeg
- child unbelted.avi
- Crash Dummies.avi
- Crash spirits.asf
- crash test.avi
- D.03 Road Rage.wmv
- D.04 Dialing and Driving\_0001.wmv
- D.05 Drag Racing Dangers 01\_LOV2XLR8.wmv
- D.06 Organ Donor Share Your Life Share Your Decision.wmv
- Drowsy\_unbelted.avi
- dualdriving.mpeg
- Elephant crash.mpg
- experiencing\_esc.mpg
- female parking.wmv
- fire graphic.gif
- FREE\_PARKING.MPG
- front all belted.avi
- front view all belted.avi
- front view back unbeltedt.avi
- funny cats.wmv
- Goal.mpeg
- HAND TO HAND.MPG
- HELMET.MPG
- I believe in Merides.mpg
- infant[1].mpg
- into\_a\_tree\_e0.gif
- michael bullet.mpeg
- Monkey in a trunk.wmv
- obstacle\_avoidance.mpg
- oversteer.mpg
- paddle\_e0.gif
- Parallel parking.mp2
- parallel PARKING.mpg
- Parking lot rage.wmv
- penguin1.mpg
- pizzacrash.mpg
- pretty girl.wmv
- RadioPrank.asf
- rear view unbelted.avi
- Robot car.mpeg
- Rollover thrown from car.wmv
- RR crossing graphic.gif
- side crash unbelted.avi
- Side Impact..mpg
- side view back unbelted.avi
- SpeedShattersLife.avi
- stupid rider.mpeg
- TrafficStopCrash.mpg
- TrunkMonkey1.wmv
- understeer.mpg
- web source funnies.doc

Parking Video

# Module Folders Content

Name	Size	Type ^
 M11 A LP Rural Driving.pdf	845 KB	Adobe Acrobat Document
 M11 Fact Crashes with Wild Animals.pdf	105 KB	Adobe Acrobat Document
 M11 Fact Dirt Roads.pdf	262 KB	Adobe Acrobat Document
 M11 Fact Farm Equipment.pdf	238 KB	Adobe Acrobat Document
 M11 Fact Rural Road Safety.pdf	43 KB	Adobe Acrobat Document
 M11 PEP Rural Roads.pdf	52 KB	Adobe Acrobat Document
 M11 PEP Searching Rural.pdf	171 KB	Adobe Acrobat Document
 M11 PEP Searching_Los Pot.pdf	49 KB	Adobe Acrobat Document
 M11 PP Rural Driving.pdf	3,484 KB	Adobe Acrobat Document
 M11 Test_Answer key.pdf	29 KB	Adobe Acrobat Document
 M11 Wrksht Animals.pdf	122 KB	Adobe Acrobat Document
 M11 Wrksht Rural Roads.pdf	127 KB	Adobe Acrobat Document
 M11 PP Rural Driving.ppt	29,66...	Microsoft PowerPoint Presentation
 M11 PEP Rural Roads.doc	32 KB	Microsoft Word Document
 M11 PEP Searching Rural.doc	264 KB	Microsoft Word Document
 M11 PEP Searching_Los Pot.doc	31 KB	Microsoft Word Document
 M11 Test_Answer key.doc	48 KB	Microsoft Word Document
 M11 WrkSht Animals.doc	895 KB	Microsoft Word Document
 M11 Wrksht Rural Roads.doc	74 KB	Microsoft Word Document

# LESSON PLAN

The cover of each lesson plan identifies the Essential Knowledge and Skill included in the lesson along with a list of the topics.

## Module 11 Lesson Plan



### Strategies for Rural Driving

#### Content

##### Essential Knowledge and Skills 22

- Crash Statistics
- Rural Road Characteristics
- Time and Space Management Strategies
- Driving on Two-Lane Roads
- Driving on Multi-Lane Roads
- Passing and Being Passed
- Highway Hypnosis
- Slow Moving Vehicles
- Night Driving
- Rural Railroad Crossings
- Animals
- Assignment
- Assessment

# Module 17

## 4 Lesson Plans

### Module 17 Lesson Plan

#### Reducing Driver Distractions



##### Content

##### Essential Knowledge and Skills 37

- DRIVER DISTRACTIONS
  - ♦ Outside the Vehicle
  - ♦ Inside the Vehicle
  - ♦ Problems with Driver Distractions are not New
  - ♦ When Distractions Lead to Collisions
  - ♦ New Vehicle Technology – Helpful or Harmful?
- DIVIDED ATTENTION TASKS TO COUNTER DISTRACTED DRIVING PROBLEMS
  - ♦ Consequences of Distracted Driving
  - ♦ How Distractions Happen
  - ♦ Driving Requires Using Divided Attention Tasks
  - ♦ Understand Divided Attention
  - ♦ Learn to Divide Attention Between Tasks
- REDUCED RISK STRATEGIES TO HANDLE DIVIDED ATTENTION TASKS
- ASSIGNMENT
- ASSESSMENT

### Module 17 Lesson Plan

#### Preventing Aggressive Driving



##### Content

##### Essential Knowledge and Skills 36

- PREVENTING AGGRESSIVE DRIVING
- INTRODUCTION
- AGGRESSIVE DRIVING BEHAVIORS LEADING TO ROAD RAGE
  - ♦ True Stories
  - ♦ Who are Aggressive Drivers?
  - ♦ Poor Driving Habits That can Cause Aggression by Others
  - ♦ Three Types of Aggressive Drivers
- ANXIETIES LEADING TO DANGEROUS DRIVING BEHAVIORS
  - ♦ What is Anger?
  - ♦ How can Anger be Managed?
  - ♦ Take the Anger Test
- STRATEGIES TO REDUCE CONFLICTS
  - ♦ Reduced Risk Habits to Prevent others from becoming Aggressive
  - ♦ Reduce Stress
  - ♦ Adjust Attitude
- ASSIGNMENT
- ASSESSMENT

### Module 17 Lesson Plan

#### Effect of Emotions, Disabilities and Alcohol and Drugs on the Driving Task



##### Content

##### Essential Knowledge and Skills 31-34

- SENSES USED WHILE DRIVING
- EMOTIONS
- PHYSICAL DISABILITIES
- ALCOHOL AND DRUGS' EFFECT ON THE BODY
- BLOOD ALCOHOL CONCENTRATION
- OTHER DRUGS
- ALCOHOL AND DRUGS EFFECT ON THE DRIVING TASK
- ALCOHOL RELATED CRASHES IN MONTANA
- AVOID IMPAIRED DRIVERS ON THE ROAD
- ASSIGNMENT
- ASSESSMENT

### Module 17 Lesson Plan

#### Preventing Drowsy Driving



##### Content

##### Essential Knowledge and Skills 35

- PREVENTING DROWSY DRIVING
- DEFINITION OF FATIGUE
- THE EFFECT OF FATIGUE ON DRIVING PERFORMANCE
- THE PHYSICAL AND MENTAL SYMPTOMS OF FATIGUE
  - ♦ Warning Signs
  - ♦ Are You at Risk?
- METHODS TO PREVENT DRIVING WHILE FATIGUED AND DROWSY
  - ♦ Before "Hitting the Road"
  - ♦ Preventive Actions
- ASSIGNMENT
- ASSESSMENT

**Instructional Topic**

**Content**

Slide

- ◆ Sleep-Related Crash Statistics (Cont.)

When we don't get adequate sleep, we accumulate a sleep debt that can be difficult to "pay back" if it becomes too big

- Sleep experts say most adults need between seven and nine hours of sleep each night for optimum performance, health and safety
- The resulting sleep deprivation has been linked to health problems such as obesity and high blood pressure, negative mood and behavior, decreased productivity, and safety issues in the home, on the job, and on the road

T17-12

**THE PHYSICAL AND MENTAL SYMPTOMS OF FATIGUE**

**Warning Signs**

- Your eyelids feel heavy and your head starts to nod
- Yawning becomes almost constant and your vision seems blurry
- Constant rubbing of your eyes
- Trouble remembering the last few miles driven; missing exits or traffic signs
- Daydreaming, wandering, disconnected thoughts
- Trouble keeping your head up
- Drifting from your lane, tailgating, or hitting a shoulder rumble strip
- Feeling restless and irritable
- Blinking hard, focusing your eyes and suddenly realizing that you veered onto the shoulder or into oncoming traffic for a moment and quickly straighten the wheel
- .... This time you were lucky; next time you could become the latest victim of the tragedy of drowsy driving

T17-13

- ◆ Warning Signs

**Are You at Risk?**

Before you drive, check to see if you are:

- sleep-deprived or fatigued (6 hours of sleep or less triples your risk),
- been awake for more than 20 hours,
- suffering from sleep loss (insomnia), poor quality sleep, or a sleep debt,
- driving long distances without proper rest breaks,
- driving through the night, mid-afternoon or when you would normally be asleep,
- taking sedating medications (antidepressants, cold tablets, antihistamines),
- working more than 60 hours a week (increases your risk by 40%),
- working more than one job and your main job involves shift work, and
- driving alone or on a long, rural, dark or boring road.

T17-14

T17-15

Drivers with any of these symptoms are at a higher risk of having a drowsy-driving crash, even they don't feel sleepy

- Half the drivers who had drowsy-driving crashes said they felt "only slightly sleepy" or "not at all sleepy" right before the crash

T17-17

**Student Learning Activities**

**Resources**



**Inadequate Sleep**

- When we don't get adequate sleep, we accumulate a sleep debt that can be difficult to "pay back" if it becomes too big
- The resulting sleep deprivation has been linked to health problems such as obesity and high blood pressure, negative mood and behavior, decreased productivity, and safety issues in the home, on the job, and on the road

**THE PHYSICAL AND MENTAL SYMPTOMS OF FATIGUE**

- Your eyelids feel heavy and your head starts to nod
- Yawning becomes almost constant and your vision seems blurry
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- Trouble remembering the last few miles driven, missing exits or traffic signs
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- Trouble keeping your head up
- Drifting from your lane, tailgating, or hitting a shoulder rumble strip

**THE PHYSICAL AND MENTAL SYMPTOMS OF FATIGUE**

- Feeling restless and irritable
- You blink hard, focus your eyes and suddenly realize that you've veered onto the shoulder or into oncoming traffic for a moment and quickly straighten the wheel
- This time you were lucky; next time you could become the latest victim of the tragedy of drowsy driving

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- Half the drivers who had drowsy-driving crashes said they felt "only slightly sleepy" or "not at all sleepy" right before the crash

**Are You at Risk?**

Before you drive, check to see if you are:

- Taking sedating medications (antidepressants, cold tablets, antihistamines)
- Working more than 60 hours a week (increases your risk by 40%)
- Working more than one job and your main job involves shift work
- Driving alone or on a long, rural, dark or boring road

**M17**

## 1 Module 2—Preparing to Operate a Vehicle



**Lesson Objective:** The student will describe and demonstrate procedures for: approaching, entering, and adjusting vehicle tasks; locating and operating vehicle control devices; locating and operating communication, comfort and convenience devices; identifying instrument panel content; securing and exiting the vehicle.

Instructional Topic	Content	Slide
<b>3</b> APPROACHING, ENTERING, AND ADJUSTING VEHICLE TASKS	Introduce, model, practice and discuss Awareness of oncoming traffic	T 2-0
	<ul style="list-style-type: none"> <li>• From curbside approach from front of vehicle</li> <li>• In parking lot approach from rear</li> </ul>	T 2-1
	Upon arrival	T 2-2
◆ Approaching	<ul style="list-style-type: none"> <li>• With keys in hand, walk around and check:               <ul style="list-style-type: none"> <li>..... objects in your path</li> <li>..... small children or pets near vehicle</li> <li>..... fluid leaks</li> <li>..... tire inflation/direction tires facing</li> <li>..... body damage</li> <li>..... lights are clean</li> <li>..... inside for unwanted passengers</li> </ul> </li> <li>• Store valuables, packages, books in the trunk</li> </ul>	T 2-3
<b>4</b>	◆ Entering	Check traffic, unlock, open door and enter quickly
	<ul style="list-style-type: none"> <li>• Check door swing</li> <li>• Lock all doors               <ul style="list-style-type: none"> <li>..... review automatic, manual, child safety locks</li> <li>..... check passengers for safe entry</li> </ul> </li> <li>• Place key in the ignition—right side of steering column               <ul style="list-style-type: none"> <li>..... some keys are different for trunk/door lock and ignition switch</li> </ul> </li> </ul>	T 2-4
	◆ Adjusting Seat	Introduce, model, practice and discuss
	Seat adjustments usually located at lower front or left side of driver's seat	T 2-5
	<ul style="list-style-type: none"> <li>• Manual lever adjustment usually at lower front</li> <li>• Electronic adjustments usually left side of driver's seat or to left on door panel</li> <li>• Seat back adjustment to the left near junction of backrest to seat</li> </ul>	

The left-side page contains the lesson objectives and detailed information on what to cover.

### 1 Module Number and Name

### 2 Lesson Objectives

Prepare students to learn by stating the lesson objectives.

### 3 Lesson Guide

Each **bold** text box initiates a new topic for an essential knowledge, skill, and/or attitude to be presented, and matches the Content listed on the Module Title Page.

### 4 Sub-Topics

Diamond graphic shows lesson guide sub-topics.

### 5 Content Details

Details on content knowledge and skills with step-by-step guides for the Lesson Guide Topic.

### 6 Slides

Identifies PowerPoint (or Transparency) number to sample slide on right side page. Add your videos/CDs to the lesson plan.

Student Learning Activities

Resources



7

Montana Driver Education and Training  
Preparing to Operate a Vehicle

M 2



Approaching

8

- ✓ Review general resources
- Review Montana's rules of the road
- Review the driver's license application process
- Review Montana's licensing process
- Review Montana's licensing process
- Review Montana's licensing process

Approaching

- ✓ Read general resources of the vehicle
- Observe safe driving practices

Approaching

- ✓ Read vehicle safety resources
- Observe safe driving practices

Exiting

- ✓ Check with instructor before exiting vehicle
- Observe safe driving practices

Adjusting the Vehicle

- ✓ Review resources
- Observe safe driving practices

The right-side page is for the teacher to personalize the lesson plans. Record the learning activities, PEPs, review questions, worksheets to be used, cross-reference to other lessons, driving rules of the road from Module 3, handouts, textbook page numbers, etc.

7

Student Learning Activities

For teacher's use to prepare the lesson and activities.

8

Resources

Miniature copies of the PowerPoint files for this lesson for a quick-reference and preparation.

# Fact Sheets

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## FACT SHEET

### Module 9

### Drivers Can Affect Vehicle Balance

A driver uses the feeling of motion consistently to judge acceleration, deceleration, and loss of traction. The only other sense used more to operate a vehicle safely is vision.

Vehicle balance refers to the distribution of the weight of the vehicle on the tires as they meet the ground. This down force of the tire patch to the roadway is affected by tire pressure and the suspension geometry. The ideal tire patch size and balance for a vehicle is only reached when the vehicle is still. As soon as motion occurs, changes to the vehicle balance or weight on the tire patches changes. Acceleration, deceleration, cornering, or a combination of these actions causes a transfer of weight from one point of the vehicle to another. If there is no acceleration or deceleration, the vehicle is traveling at a constant speed or stopped, the suspension is set on center and the steering and traction condition is considered to be in balance.

#### Maintaining Vehicle Balance

Maintaining vehicle balance results from:

- steering wheel balance;
- body position which allows the feet, legs, arms and hands to maintain a stable seat position to obtain a feeling of vehicle movement (kinesthetic feedback); and
- balance maintained through precise movements of steering, smooth and progressive acceleration, and controlled brake application.

Maintaining vehicle balance results from the driver's reaction to the vehicle's suspension set and its center of weight transfer. Basically the weight of a vehicle can be concentrated on one of five points on the chassis:

- the front of the chassis (over the front tire patches),
- the rear of the chassis (over the rear tire patches),
- the center of the chassis (distributed equally over the front and rear tire patches) based on speed changes,
- to the right of center (right two tire patches), or
- the left of center (left two tire patches) based on steering or surface changes.

The magnitude of these weight changes and the driver's ability to maintain control of the vehicle is influenced by the rate of acceleration, brake application, steering input, surface traction, or combinations of these factors.

When driving newer model cars, the distance the steering wheel must be moved to perform most maneuvers is substantially less than was required with most cars during the 1980s and many models in the early 1990s. The number of steering wheel turns to move the tires lock to lock, has in most cases been reduced from four to five turns to two to three turns. The lock-to-lock configuration reduction is a result of smaller steering wheel sizes and rack and pinion steering geometry changes.

Steering too quickly in combination with sudden brake application may have contributed to crashes when a driver loses control and leaves the roadway, often in a roll-over. The use of hand-over-hand steering is limited and hand-to-hand (push-pull) steering is now preferred. When moving at slow speeds with limited line of sight vision, such as perpendicular parking, or during very fast action, such as traction loss recovery, hand-over-hand is still recommended. Since drivers operate different types of vehicles, it is important to know all four steering wheel control maneuvers.

#### Seating Position

In order to establish vehicle balance and improve visual searching, drivers need to sit in a comfortable, erect position squarely behind the steering wheel. Adjust seat height so that the top of the steering wheel is in line with

# Tests with Answer Keys

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## TEST

### Module 9 Natural Laws Affecting Vehicle Control

Date \_\_\_\_\_

Name \_\_\_\_\_

Score \_\_\_\_\_

Select the best answer and place the appropriate letter (A, B, C, or D) on the answer sheet provided.

- Three factors that determine force of impact are
  - speed, weight, and distance between impact and stopping.
  - traction, brakes, and steering.
  - tire tread, visibility, and four-wheel drive.
  - shock absorbers, tire pressure, and roadway surface.
- The force that pulls objects toward the center of the earth is
  - gravity.
  - energy of motion.
  - kinetic energy.
  - inertia.
- A vehicle going uphill works
  - with the force of gravity.
  - against the force of gravity.
  - against inertia.
  - with inertia.
- Energy of motion is another way of expressing
  - kinetic energy.
  - effect of wind on vehicle control.
  - mileage rating of a vehicle.
  - the way vehicle bodies are designed.
- A vehicle driven into a curve tends to
  - go in a straight line.
  - store energy of motion.
  - increase speed.
  - increase traction.
- High energy of motion may cause a vehicle to
  - go around a tight curve successfully.
  - lose traction in a tight curve.
  - bank a curve.
  - maintain good traction in a tight curve.
- All-wheel drive means
  - power is supplied to four wheels.
  - all four tires are inflated properly.
  - traction is reduced.
  - power is in the front tires only.
- If a tire is under-inflated, the only part that grips the road well is the
  - center of the tire tread.
  - outside edges of the tire tread.
  - tire cords.
  - wear bar.
- Because of its energy of motion, when a vehicle's speed doubles, the vehicle needs about
  - twice the distance to stop.
  - half the distance to stop.
  - one-fourth the distance to stop.
  - four times the distance to stop.
- One way to reduce the effects of inertia in a car is by
  - wearing seat belts.
  - using chains.
  - using studded tires.
  - braking hard.
- The center of gravity of a vehicle is that point
  - around which all weight is evenly balanced.
  - that is farthest from the ground.
  - near the front bumper.
  - about three feet under the roadway surface.

# Final Test Analysis

## FINAL KNOWLEDGE TEST

	Total: 75 Test Questions	% Weight	# of questions
Module 1	Course Overview/Parent Orientation	0	0
Module 2	Preparing to Operate a Vehicle	5%	4
Module 3	Traffic Control Devices and Laws	5%	4
Module 4	Basic Control Tasks	7%	5
Module 5	Strategies for Effective Vision Control	5%	4
Module 6	Strategies for Managing Time and Space	6%	5
Module 7	Strategies for Mixing with Traffic	8%	6
Module 8	Vehicle Control in Limited Spaces	5%	4
Module 9	Natural Laws Affecting Vehicle Control	7%	5
Module 10	Strategies for Negotiating Hills and Curves	7%	5
Module 11	Strategies for Rural Driving	4%	3
Module 12	Strategies for Urban Driving	4%	3
Module 13	Strategies for Controlled Access Highways	4%	3
Module 14	Strategies for Adverse Conditions	5%	4
Module 15	Strategies for Sharing the Road with Other Users	5%	4
Module 16	Strategies for Emergencies	5%	4
Module 17	Driver Fitness and Responsibilities	9%	7
Module 18	Owning a Vehicle and Trip Planning	0	0
Module 19	Using Vehicle and Roadway designs to Manage Risk	0	0
Module 20	Driver Licensing and Final Assessment	7%	5
	<b>TOTAL QUESTION</b>	<b>98%</b>	<b>75</b>

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# Final Test Bank 377 Questions

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## Test Bank

### Module 20

### Final Comprehensive Test Bank

Test questions organized by Essential Knowledge and Skills.

#### Topic 1. Course Overview and Parent Orientation.

This course identified the responsibilities and role of the teacher, parents and student.

- True  
 False

The Montana Traffic Education Program topics include

- A. laws for operating a vehicle.
- B. procedures for operating and owning a vehicle.
- C. using a space management system.
- D. All the above.

#### Topic 2. Identifying Vehicle Gauges, Alert and Warning Symbols.

The student distinguishes between vehicle alert and warning symbols, and gauges displayed on the dashboard.

A tachometer indicates

- A. engine speed.
- B. oil pressure.
- C. the speed the vehicle is traveling.
- D. keeps track of the number of miles traveled.

The brake system warning light serves to

- A. remind drivers to release the parking brake before moving.
- B. let the driver know the system is not working properly.
- C. will remain on while driving, then flash if there is a problem.
- D. Both A and B are correct.

# Worksheets most have Answer Keys

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## WORK SHEET

### Module 9

### Calculating Braking Distances

Name \_\_\_\_\_

Date \_\_\_\_\_

Score \_\_\_\_\_

#### Feet Per Second Calculation

One mile = 5,280 feet

One hour = 3,600 seconds       $5,280 \div 3,600 = 1.46666$  feet (1.467) per second a vehicle will travel

Use 1.467 feet/sec to calculate distance traveled for all speeds

Example:  $40 \text{ mph} \times 1.467 = 59$  feet per second traveled at 40 mph

Simplified method not as accurate, but close:

Speed  $\div 2 =$  a number, + speed = feet per second traveled

Example:  $40 \text{ mph} \div 2 = 20 + 40 \text{ mph} = 60$  feet per second traveled at 40 mph

#### Reaction Time Distance Calculation

Average reaction time is  $\frac{3}{4}$  of a second (.75) (driver is alert and ready to react)

To calculate reaction time distance:

speed X feet per second traveled X .75 (reaction time) = feet traveled during reaction time

Example:  $40 \text{ mph} \times 1.467 \times .75 = 44$  feet traveled during reaction time

Example:  $40 \text{ mph} \div 2 = 20 + 40 \text{ mph} = 60 \times .75 = 45$  feet traveled during reaction time

#### Braking Distance Calculation

Speed X Speed  $\div 10 \div 2 =$  Average Braking Distance

Example:  $40 \text{ mph} \times 40 \text{ mph} = 10 \div 2 = 80$  feet to stop at 40 mph

#### Total Stopping Distance

Reaction Time (speed X 1.467 X .75) + Braking Distance (Speed X Speed  $\div 10 \div 2$ ) = Average Stopping Distance

Example:  $40 \times 1.467 \times .75 + ((40 \times 40 \div 10 \div 2) =$   
 $44 + 80 = 124$  feet Average Stopping Distance

# GDL Worksheet

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## MONTANA PARENT/GUARDIAN – TEEN DRIVER VEHICLE USE AND OPERATION AGREEMENT

We, \_\_\_\_\_ hereby enter into an agreement covering the use and operation of any vehicle used by \_\_\_\_\_

**YOU WILL BE REQUIRED TO PAY FOR THE FOLLOWING:** (Write in percent desired)

_____ Cost of vehicle	_____ Vehicle registration
_____ Cost of fuel	_____ Maintenance costs
_____ Damage due to abuse	_____ Full insurance coverage
_____ Under-age-25 insurance costs	_____ Fines and penalties
_____ Collision damage	_____ Under-B-average insurance costs
_____ Costs due to driving record	_____

**YOU WILL BE RESPONSIBLE FOR THE FOLLOWING:**

_____ Check fluids each fuel fill	_____ Inspect and check tire pressure
_____ Report unusual performance	_____ Clear or clean all windows
_____ Report when fuel is less than 1/4 tank	_____ Do normal maintenance
_____ Wash and wax vehicle	_____ Keep interior clean
_____ Have maintenance done	

**YOUR USER PRIVILEGE WILL BE LINKED TO YOUR GRADES IN SCHOOL AND PERFORMANCE AT HOME**

\_\_\_\_\_ Doing duties at home properly and on time  
 \_\_\_\_\_ Showing proper respect for parents and others  
 \_\_\_\_\_ Complying with family regulations  
 \_\_\_\_\_ Attendance, conduct and effort at school

**WRITE IN THE MAXIMUM NUMBER OF MILES AND THE MAXIMUM NUMBER OF TIMES YOU MAY DRIVE PER WEEK (Related to grades)**

Grades:

A _____ Miles per week	_____ Times per week
B _____ Miles per week	_____ Times per week
C _____ Miles per week	_____ Times per week
D _____ Miles per week	_____ Times per week
F _____ Miles per week	_____ Times per week

**YOU WILL LOSE YOUR USER PRIVILEGE THESE NUMBER OF DAYS FOR EACH TRAFFIC OFFENSE OR PREVENTABLE CRASH:**

First Offense _____ days	Preventable crash _____ days
Second Offense _____ days	Moving violation _____ days
Third Offense _____ days	Drugs or alcohol _____ days

**YOU WILL BE REQUIRED TO COMPLY WITH THE FOLLOWING REGULATIONS:**

\_\_\_\_\_ You will provide destination and time of return.  
 \_\_\_\_\_ Safety belt will be fastened at all times.  
 \_\_\_\_\_ Every passenger must wear a safety belt.  
 \_\_\_\_\_ No drugs or alcohol in the car.  
 \_\_\_\_\_ You may not lend the car or allow others to drive it.  
 \_\_\_\_\_ You will call if more than 30 minutes late.

**YOU ARE LEGALLY RESPONSIBLE FOR YOUR ACTIONS AS A DRIVER.**

**WE, AS VEHICLE OWNERS, ARE LEGALLY LIABLE FOR DAMAGES DONE BY YOU AS A DRIVER.**

Signed on the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

Parent \_\_\_\_\_

Parent \_\_\_\_\_

Son/Daughter \_\_\_\_\_

# In-Car

## Sequence for One-Half Hour Drives

### Drive One Objectives

Environment: Parking Lot

- Preparation to Drive
- Orientation to Controls/Adjustments
- All occupants buckled up
- Starting the Vehicle
- Steering Wheel Control
- Putting the Vehicle into Motion
- Managing Speed Control
- On/Off Targeting (Vision Control)
  - Turn Head before Turning Wheel
- Tracking on a Straight Path
- Stopping Smoothly with Controlled Braking
- Stopping Quickly with Threshold Braking
- Securing and Exiting the Vehicle

### Drive Two Objectives

Environment: Low Speed, Low Risk Traffic

- Locating Reference Points
- Selecting Lane Positions
- Searching Intersections
- Responding to Signs/Signals/Markings
- Entering Intersections
- Turning Right from a Stop and While Moving
- Turning Left from a Stop and While Moving
- Backing on a Straight Path
- Backing While Turning

### Drive Three Objectives

Environment: Low Risk Traffic

- Responding to Traffic Signs, Signals, Markings
  - Yielding Right of Way
  - Selecting Where to Stop
- Searching to the Front
- Approaching & Recognizing Intersections Types
- Searching Intersections
  - Identifies Line of Sight/Path of Travel (LOS-POT) Restrictions
- Controlling Space to the Front
  - Judging Distance in Seconds
  - Establishing Following Time
  - Selecting Lane Positions
- Entering Intersections
- Changing Lanes
- Reading Instruments

### Drive Four Objectives

Environment: Moderate Traffic

- Evaluating Target Path
- Searching to the Front
- Responding to LOS/POT Conditions
- Selecting Lane Positions
- Applying Speed Control
- Stopping With Vehicle in Front
- Using Staggered Stops for Space Management
- Delaying Moving for 2 Seconds
- Identifying Open/Closed Zones
- Using Share Lanes
- Passing and Being Passed

# BTW Guidelines

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## BTW Lesson Plan Guidelines

Teachers should develop written lesson plans for behind-the-wheel instruction and in-car observation that reflect local driving environments. It is also important to have procedures, techniques, and route selections clearly written to avoid tort liability problems. Program administrators should have copies of the routes and lesson plans on file.

The following information will assist in developing route plans for behind-the-wheel instruction, in-car observation.

- Select a drive route appropriate to the individual lesson objectives and student-driver's ability. Be prepared with an alternate route in case of detours or other traffic problems.
- At the beginning of each session, make sure the student driver and observer understand the objectives of the lesson, and do a quick review of the preceding session.
- Be calm and patient, but alert at all times. Do not become distracted from the instructional task. The teacher must maintain the highest level of care at all times to insure the safe operation of the vehicle.
- Headlights should be used at all times.
- Mirrors should be adjusted for the student's use; not the instructor's.
- Sit so the instructor's left hand can be quickly placed on the steering wheel if necessary.
- Never leave students unsupervised in a vehicle with the motor running.
- As with any instructional setting, food and beverages must not be consumed in the vehicle.
- Read the traffic environment ahead, to the sides and behind while observing the student driver's behavior and ask the student to verbalize the need to change direction or speed.
- When giving directions, first provide students with the path of travel and then state the action to take. (At the second intersection, prepare to turn left.)
- Give directions 4 to 6 seconds before the maneuver, and always check mirrors before giving directions. (The novice driver will take more time to process information than an experienced driver.)
- Avoid the use of terms with possible double meanings. (Instead of saying "right" to indicate a correct response to a question, say "that's correct".) It may be helpful to point in the direction you want the student to go.
- Demonstrate what and how to do something to save time. (Demonstrations may be as simple as assisting with steering, using the instructor brake, using a drawing or magnetic

# BTW Behaviors

## In-Car Behaviors

### Non-Moving Skills

#### Preparing to Operate

- \_\_\_ Approaches the vehicle with awareness
- \_\_\_ Checks traffic & enters and locks doors
- \_\_\_ Places key in ignition
- \_\_\_ Adjusts seat position, head restraint, steering wheel, and safety belt
- \_\_\_ Adjusts rearview and sideview mirrors to reduce blind areas
- \_\_\_ Checks all passengers are buckled up

#### Starting the Vehicle

- \_\_\_ Checks that the parking brake is set
- \_\_\_ Checks gear selector lever is in PARK
- \_\_\_ Places right foot on brake, heel on floor
- \_\_\_ Places left foot on "dead pedal"
- \_\_\_ Turns engine "on" and checks gauges, alert lights, warning lights
- \_\_\_ Turns key to start engine
- \_\_\_ Adjusts accessories as needed
- \_\_\_ Turns on headlights both day and night, if not automatic

#### Exiting and Securing the Vehicle

- \_\_\_ Locates safe parking location
- \_\_\_ Sets parking brake and shifts into PARK (or REVERSE) for standard transmission) before removing foot from brake
- \_\_\_ Turns off appropriate accessories; closes all windows
- \_\_\_ Turns off ignition, moves key to locked position; removes key
- \_\_\_ Visually checks for safe exit from vehicle
- \_\_\_ Unfastens safety belt
- \_\_\_ Opens door and exits quickly when safe
- \_\_\_ Locks doors and activates available alarm system

### Vision Control

- \_\_\_ Identifies Target
- \_\_\_ Tracks on a straight path

### Steering Wheel Control

- \_\_\_ Starts with a balanced hand position on the wheel at or below the 9 and 3 positions

#### Push-Pull/Hand-to-Hand Steering

- \_\_\_ Uses for precision maneuvers
- \_\_\_ Starts from a balanced hand position
- \_\_\_ One hand pushes, the other hand pulls
- \_\_\_ Hands move between 1:5 and 11:7 positions
- \_\_\_ Keeps hands on outside of steering wheel rim
- \_\_\_ Slides hands continuously and smoothly for input and stabilization

#### Hand-Over-Hand Steering

- \_\_\_ Uses when steering speed is critical and vision is limited
- \_\_\_ Uses the top third of the steering wheel
- \_\_\_ One hand pushes while the other hand pulls
- \_\_\_ Moves wheel continuously and quickly into turn
- \_\_\_ Recovers wheel smoothly and returns hands to 9:3 positions
- \_\_\_ Controls all movements with hands on the wheel

#### One Hand Steering

- \_\_\_ Used when backing in a straight line and parallel parking
- \_\_\_ Shifts hip and seating position to look out the rear and side windows
- \_\_\_ Places right hand on top of passenger's seat
- \_\_\_ Left hand grips the top of the wheel, using small adjustments in steering
- \_\_\_ Maintains "walking" speed while backing

### Motion Control

#### Accelerator Control

- \_\_\_ Slows by releasing the accelerator pedal
- \_\_\_ Keeps heel on floor, pivots from brake to accelerator
- \_\_\_ Moves inch by inch for accelerator control practice
- \_\_\_ Maintains steady speed and increases to desired speed
- \_\_\_ Increases speed smoothly
- \_\_\_ Decelerates gradually

#### Braking Control

- \_\_\_ Checks rear zone prior to braking
- \_\_\_ Applies smooth, steady, controlled braking
- \_\_\_ Brings the vehicle to a smooth stop
- \_\_\_ Eases pressure off brake during the last two seconds of braking to reduce vehicle pitch force
- \_\_\_ Checks the rear zone after braking actions

1181-1816

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